

Application No. 10/759,307
Amendment dated June 2, 2008
Reply to Office Action of February 12, 2008

Docket No.: 3449-0301P

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 5, line 16 as follows:

As shown in FIG. 1, if a server (for example, broadcasting station) periodically transmits the transport stream, a client resolves ~~from~~at~~from~~ the root directory so as to search a necessary file.

Please amend the paragraph beginning on page 6, line 21 as follows:

At this time, since respective directory objects acknowledge only its own lower directory information, resolution is always performed ~~from~~at~~from~~ the root directory so as to search the file.

Please amend the paragraph beginning on page 13, line 9 as follows:

To achieve these objects and other advantages and in accordance with the purpose of the invention, as embodied and broadly described herein, there is provided a file searching method of a data broadcasting system, the method including the steps of: confirming whether or not a control message of Download Server Initiate is updated, in response to a search request for a file object; and searching the search-requested file object ~~from~~at~~from~~ a new root directory object, in case that the control message of Download Server Initiate is updated.

Please amend the paragraph beginning on page 14, line 4 as follows:

In another aspect of the present invention, there is provided a file searching method of a data broadcasting system, the method including the steps of: confirming whether or not an absolute path exists in a control message of Download Server Initiate, in response to a search request for a file object; and searching the search-requested file object ~~from-atfrom~~ a new directory object designated correspondingly to the absolute path, in case that the absolute path exists.

Please amend the paragraph beginning on page 16, line 14 as follows:

Further, the absolute path represents a path for the directory object existing in a whole hierarchical architecture of the basic root directory object designated to the "ServiceGatewayInfo()." Accordingly, in case that the absolute path is written, a search process is not performed at the directory objects corresponding to the corresponding absolute path, and straightly, the search process is performed ~~from-atfrom~~ the designated basic root directory object.

Please amend the paragraph beginning on page 17, line 1 as follows:

As in FIG. 4A, the absolute path is not written in the initially transmitted DSI control message such that the search process is performed ~~from-atfrom~~ the designated basic root directory.

Please amend the paragraph beginning on page 17, line 4 as follows:

In other words, the basic root directory object (com) designated to the "ServiceGateInfo ()" of the DSI control message is searched, and then a lower directory object (digisoft/xlets/diginews) corresponding to a hierarchical architecture depth consumed ~~from~~ ~~at~~from the basic root directory object is searched while the desired file object (digiNews.class) is finally searched.

Please amend the paragraph beginning on page 18, line 6 as follows:

In the file system, the search is performed using the updated DSI control message. That is, it is confirmed whether or not the absolute path is written in the updated DSI control message. At this time, in case that the absolute path (com/digisoft/xlets) is written in the "serviceContext_data_byte", the search process is performed ~~from~~ ~~at~~from the new root directory object (diginews) being a next hierarchical architecture of the absolute path.

Please amend the paragraph beginning on page 18, line 14 as follows:

Accordingly, the search is not initiated ~~from~~ ~~at~~from the basic root directory object (com) and straightly, the search is performed ~~from~~ ~~at~~from the new root directory object (diginews) designated as the next hierarchical architecture of the absolute path (com/digisoft/xlets). Accordingly, the process of repetitively searching a duplicated directory object is omitted such that the overhead can be reduced and an entire search speed can be remarkably improved.

Please amend the paragraph beginning on page 18, line 22 as follows:

In the file system, the basic root directory object (com) of the initially transmitted DSI control message is acknowledged as an initial root directory object for searching the desired file object (digiNews.class), and the search is initiated ~~from-at~~from the basic root directory object. At this time, as the absolute path and the new root directory object obtained from the process of searching the desired file object are used to update the DSI control message, in case that other file objects than the initially searched file object are searched, the new root directory object is acknowledged as the initial root directory such that the search is initiated ~~from-at~~from the new root directory object. Accordingly, the search does not need to be performed as much as the absolute path such that as much as that, the overhead is reduced and further the search speed is improved.

Please amend the paragraph beginning on page 19, line 16 as follows:

Since the absolute path is not written and the basic root directory object is designated in the initially transmitted DSI control message, the search is initiated ~~from-at~~from the basic root directory object to search the initial file object. Herein, it is assumed that the absolute path and the new root directory object obtained from the process of searching the initial file object are used to update the DSI control message.

Please amend the paragraph beginning on page 22, line 1 as follows:

In this case, if the search for the file object is requested, the search process is performed ~~from-at~~from the basic root directory object that is designated due to non-existence of the absolute path.

Please amend the paragraph beginning on page 22, line 5 as follows:

As described above, if the desired file object is searched ~~from-at~~from the basic root directory object, the absolute path and the new root directory object are obtained in the process of searching the desired file object, and the obtained absolute path and new root directory object is used to update the DSI control message.

Please amend the paragraph beginning on page 22, line 14 as follows:

At this time, in case that the search for the file object is again requested, since the absolute path is written in the updated DSI control message, the search is performed ~~from-at~~from the new root directory object being the next lower hierarchical architecture of the absolute path.